Inventor Search

Rooke 10/670,563

27/07/2005

=> d ibib abs ind 152

L52 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:286767 HCAPLUS

DOCUMENT NUMBER: 140:292615

TITLE: Concentrate of von-Willebrand blood coagulation

factor-factor VIIIc complex and method for preparation

INVENTOR(S): Kumpe, Gerhardt; Juraschek, Manfred

; Mayer, Natascha; Schulte, Stefan

; Wormsbaecher, Wilfried

PATENT ASSIGNEE(S): Aventis Behring G.m.b.H., Germany

SOURCE: Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PAT	CENT	NO.			KIN		DATE			APP	LICA	rion	NO.		D	ATE	
																-		
	ΕP	1405	863			A1	2	2004	0407	•	ΕP	2003	-2014	8		2	0030	905
		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT	, LI,	LU,	NL,	SE,	MC,	PT,
			ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	ΑL	, TR	, BG,	CZ,	EE,	HU,	SK	
	DE	1024	6125			A1	2	2004	0415		DE	2002	-1024	6125		2	0021	001
	US	2004	1326	54		A1	2	2004	0708		US	2003	-6705	63		2	0030	926
	CA	2443	463			AA	2	2004	0401		CĄ	2003	-2443	463		2	0030	929
	JΡ	2004	1237	44		A2	2	2004	0422		JΡ	2003	-3390	76		2	0030	930
PRIO	RITY	APP	LN.	INFO	. :						DE	2002	-1024	6125	7	A 2	0021	001

AB The invention concerns a blood product that is a concentrate of blood coagulation factor von Willebrand (vWF) and VIIIc complex; the concentrate is prepared from a fluid that contains the two factors; fractionated precipitation is

performed in a way that high mol. weight components of vWF are enriched and a ratio of vWF-Ristocetin-cofactor activity (vWF:RCoF) to vWF-Antigen (vWF:Ag) being greater than 1 is established. Plasma, plasma fractions, cryoppts., and genetically modified cells are the starting materials. For fractionated precipitation amino acids, especially glycine, salts, especially sodium chloride

are used. The product or pre-products are sterilized and stabilized with calcium-ion containing agent. The dissolved cryoppt. is treated before the fractionated precipitation: mixing with alumina results the adsorption of entrapped prothrombin complexes; glycine ppts. fibrin. The concentrate is used to treat von Willebrand syndrome and hemophilia A.

IC ICM C07K014-755

ICS A61K038-37; A61P007-04

- CC 63-3 (Pharmaceuticals)
- ST conc blood coagulation factor VIIIC von Willebrand hemophilia
- IT Hemophilia

(A; concentrate of von-Willebrand blood coagulation factor-factor VIIIc complex and method for preparation)

IT Adsorption

Blood products

Molecular weight

Sterilization and Disinfection

Von Willebrand's disease

(concentrate of von-Willebrand blood coagulation factor-factor VIIIc complex and method for preparation)

IT Fibrins

RL: REM (Removal or disposal); PROC (Process)

(concentrate of von-Willebrand blood coagulation factor-factor VIIIc complex and method for preparation)

- IT Amino acids, biological studies
 - RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (concentrate of von-Willebrand blood coagulation factor-factor VIIIc complex and method for preparation)
- IT Precipitation (chemical)

(fractionated; concentrate of von-Willebrand blood coagulation factor-factor VIIIc complex and method for preparation)

- IT Antigens
 - RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (von Willebrand's factor; concentrate of von-Willebrand blood coagulation
 factor-factor VIIIc complex and method for preparation)
- IT 7440-70-2, Calcium, biological studies
- RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (-containing stabilizing agent; concentrate of von-Willebrand blood coagulation

factor-factor VIIIc complex and method for preparation)

- IT 1344-28-1, Alumina, biological studies 9001-27-8, Blood coagulation factor VIII, complex
 - RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(concentrate of von-Willebrand blood coagulation factor-factor VIIIc complex and method for preparation)

- IT 9001-26-7, Prothrombin
 - RL: REM (Removal or disposal); PROC (Process)
 (concentrate of von-Willebrand blood coagulation factor-factor VIIIc complex and method for preparation)
- IT 56-40-6, Glycine, biological studies 7647-14-5, Sodium chloride, biological studies 109319-16-6, Blood-coagulation factor VIII, von Willebrand's 113189-02-9, Blood coagulation factor VIIIc
 - RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (concentrate of von-Willebrand blood coagulation factor-factor VIIIc complex and method for preparation)

=> d his ful

```
FILE 'HCAPLUS' ENTERED AT 12:12:05 ON 27 JUL 2005
                 E KUMPE GERHARDT/AU
                 E KUMPE GERHARDT/AU
L47
              20 SEA ABB=ON ("KUMPE G"/AU OR "KUMPE GERHARD"/AU OR "KUMPE
                 GERHARDT"/AU)
                 E JURASCHEK MANFRED/AU
               2 SEA ABB=ON ("JURASCHEK M"/AU OR "JURASCHEK MANFRED"/AU)
L48
                 E MAYER NATASCHA/AU
               6 SEA ABB=ON ("MAYER N M"/AU OR "MAYER NATALIE"/AU OR "MAYER
L49
                 NATASCHA"/AU)
                 E SCHULTE STEFAN/AU
L50
               9 SEA ABB=ON "SCHULTE STEFAN"/AU
                 E WORMSHABACHER WILFRIED/AU
                 E WORMSBACH/AU
L51
               9 SEA ABB=ON ("WORMSBAECHER WILFRIED"/AU OR "WORMSBAECHER
                 WINFRIED"/AU)
L52
               1 SEA ABB=ON L47 AND L48 AND L49 AND L50 AND L51
L53
                 ANALYZE L52 1-1 CT : 10 TERMS
     FILE 'REGISTRY' ENTERED AT 13:35:29 ON 27 JUL 2005
              1 SEA ABB=ON 9001-27-8/RN
L54
L55
               1 SEA ABB=ON 109319-16-6/RN
L56
               1 SEA ABB=ON 56-40-6/RN
               1 SEA ABB=ON 7647-14-5/RN
     FILE 'HCAPLUS' ENTERED AT 13:36:08 ON 27 JUL 2005
L58
           10492 SEA ABB=ON (L54 OR ?FACTOR?(W)VIIIC) OR (L55 OR VON?(W)?WILLEB
                 RAND?)
              37 SEA ABB=ON L58 AND ?PRECIPITAT? (4A) ?FRACTION?
L59
              12 SEA ABB=ON L59 AND (L56 OR ?GLYCINE?)
L60
             6 SEA ABB=ON L59 AND (L57 OR NACL OR ?SODIUM?(W)?CHLORIDE?)
14 SEA ABB=ON L60 OR L61
2 SEA ABB=ON L62 AND (?AMINO?(W)?ACID? OR (?ALKALI? OR ?ALKALINE
L61
L62
L63
                 ?)(W)?METAL?)
              3 SEA ABB=ON L59 AND (?AMINO?(W)?ACID? OR ?ALKAL?(W)?METAL?)
15 SEA ABB=ON L62 OR L63 OR L64
2 SEA ABB=ON L65 AND (?STABILIZ? OR ?PASTEURIZ?)
L64
L65
L66
L67
              15 SEA ABB=ON L65 OR L66
     FILE 'MEDLINE, BIOSIS, EMBASE, JAPIO, JICST-EPLUS' ENTERED AT 13:49:10 ON
     27 JUL 2005
             6 DUP REMOV L68 (5 DUPLICATES REMOVED) 6 Cete from above debs 5
         11 SEA ABB=ON L67
L68
L69
     FILE 'USPATFULL' ENTERED AT 13:53:07 ON 27 JUL 2005
L70
             277 SEA ABB=ON L65 OR L66
             241 SEA ABB=ON L70 AND (PRD<20021001 OR PD<20021001)
L71
            154 SEA ABB=ON L71 AND ((L57 OR NACL OR ?SODIUM?(W)?CHLORIDE?)
L72
                 AND (L56 OR ?GLYCINE?))
             7 SEA ABB=ON L72 AND ?FRACTIONAL? (W) (?PRECIPITAT? OR ?CONCENTRAT?) 7 CIFE FROM USPATFULL
L73
     FILE 'HCAPLUS' ENTERED AT 14:24:05 ON 27 JUL 2005
             14 SEA ABB=ON L67 AND (PRD<20021001 OR PD<20021001) /4 Certificom
GISTRY

(Values to 2002 to 1)
L74
     FILE REGISTRY
     Property values tagged with IC are from the ZIC/VINITI data file
```

provided by InfoChem.

STRUCTURE FILE UPDATES: 26 JUL 2005 HIGHEST RN 857144-48-0 DICTIONARY FILE UPDATES: 26 JUL 2005 HIGHEST RN 857144-48-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

* The CA roles and document type information have been removed from *

* the IDE default display format and the ED field has been added, *

* effective March 20, 2005. A new display format, IDERL, is now *

* available and contains the CA role and document type information. *

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

FILE HCAPLUS

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 27 Jul 2005 VOL 143 ISS 5 FILE LAST UPDATED: 26 Jul 2005 (20050726/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE MEDLINE

FILE LAST UPDATED: 26 JUL 2005 (20050726/UP). FILE COVERS 1950 TO DATE.

On December 19, 2004, the 2005 MeSH terms were loaded.

The MEDLINE reload for 2005 is now available. For details enter HELP RLOAD at an arrow promt (=>). See also:

http://www.nlm.nih.gov/mesh/ http://www.nlm.nih.gov/pubs/techbull/nd04/nd04 mesh.html OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2005 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE BIOSIS

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 21 July 2005 (20050721/ED)

FILE RELOADED: 19 October 2003.

FILE EMBASE

FILE COVERS 1974 TO 21 Jul 2005 (20050721/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE JAPIO

FILE LAST UPDATED: 4 JUL 2005 <20050704/UP>
FILE COVERS APR 1973 TO MARCH 31, 2005

<<< GRAPHIC IMAGES AVAILABLE >>>

FILE JICST-EPLUS

FILE COVERS 1985 TO 25 JUL 2005 (20050725/ED)

THE JICST-EPLUS FILE HAS BEEN RELOADED TO REFLECT THE 1999 CONTROLLED TERM (/CT) THESAURUS RELOAD.

FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 26 Jul 2005 (20050726/PD) FILE LAST UPDATED: 26 Jul 2005 (20050726/ED)

HIGHEST GRANTED PATENT NUMBER: US6922846

HIGHEST APPLICATION PUBLICATION NUMBER: US2005160510 CA INDEXING IS CURRENT THROUGH 26 Jul 2005 (20050726/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 26 Jul 2005 (20050726/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2005

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<< >>> original, i.e., the earliest published granted patents or <<< >>> applications. USPAT2 contains full text of the latest US <<< >>> publications, starting in 2001, for the inventions covered in <<< >>> USPATFULL. A USPATFULL record contains not only the original <<< >>> published document but also a list of any subsequent <<< publications. The publication number, patent kind code, and <<< publication date for all the US publications for an invention <<< are displayed in the PI (Patent Information) field of USPATFULL <<< >>> records and may be searched in standard search fields, e.g., /PN, <<< >>> /PK, etc.

27/	07	/20	05

Rooke 10/670,563

> > >	USPATFULL and USPAT2 can be accessed and searched together	<<<
	through the new cluster USPATALL. Type FILE USPATALL to	<<<
>>>	enter this cluster.	<<<
>>>		<<<
>>>	Use USPATALL when searching terms such as patent assignees,	<<<
>>>	classifications, or claims, that may potentially change from	<<<
>>>	the earliest to the latest publication.	<<<

This file contains CAS Registry Numbers for easy and accurate substance identification. $\begin{tabular}{ll} \end{tabular} \label{table_equation} \end{tabular}$

```
=> d que stat 174
              1 SEA FILE=REGISTRY ABB=ON 9001-27-8/RN
L54
             1 SEA FILE=REGISTRY ABB=ON 109319-16-6/RN
L55
L56
            1 SEA FILE=REGISTRY ABB=ON 56-40-6/RN
              1 SEA FILE=REGISTRY ABB=ON 7647-14-5/RN
L57
L58
          10492 SEA FILE=HCAPLUS ABB=ON (L54 OR ?FACTOR?(W)VIIIC) OR (L55 OR
                VON? (W) ?WILLEBRAND?)
             37 SEA FILE=HCAPLUS ABB=ON L58 AND ?PRECIPITAT? (4A) ?FRACTION?
L59
L60
             12 SEA FILE=HCAPLUS ABB=ON L59 AND (L56 OR ?GLYCINE?)
             6 SEA FILE=HCAPLUS ABB=ON L59 AND (L57 OR NACL OR ?SODIUM?(W)?CH
L61
                LORIDE?)
             14 SEA FILE=HCAPLUS ABB=ON L60 OR L61
L62
              2 SEA FILE=HCAPLUS ABB=ON L62 AND (?AMINO?(W)?ACID? OR (?ALKALI?
L63
                 OR ?ALKALINE?) (W) ?METAL?)
L64
              3 SEA FILE=HCAPLUS ABB=ON L59 AND (?AMINO?(W)?ACID? OR ?ALKAL?(W
                )?METAL?)
L65
             15 SEA FILE=HCAPLUS ABB=ON L62 OR L63 OR L64
             2 SEA FILE=HCAPLUS ABB=ON L65 AND (?STABILIZ? OR ?PASTEURIZ?)
L66
L67
             15 SEA FILE=HCAPLUS ABB=ON L65 OR L66
L74
             14 SEA FILE=HCAPLUS ABB=ON L67 AND (PRD<20021001 OR PD<20021001)
=> d ibib abs 174 1-14
L74 ANSWER 1 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
```

ACCESSION NUMBER:

2001:884943 HCAPLUS

DOCUMENT NUMBER:

136:163110

TITLE:

. - . . 2

A novel human metalloprotease synthesized in the liver

and secreted into the blood: possibly, the von

Willebrand factor-cleaving protease?

AUTHOR (S):

Soejima, Kenji; Mimura, Noriko; Hirashima, Masaki;

Maeda, Hiroaki; Hamamoto, Takayoshi; Nakagaki,

Tomohiro; Nozaki, Chikateru

CORPORATE SOURCE:

First Research Department, The Chemo-Sero-Therapeutic

Research Institute, Kumamoto, 869-1298, Japan Journal of Biochemistry (Tokyo, Japan) (2001

), 130(4), 475-480

CODEN: JOBIAO; ISSN: 0021-924X Japanese Biochemical Society

PUBLISHER: DOCUMENT TYPE:

SOURCE:

Journal

LANGUAGE:

English

We identified a novel metalloprotease which could be responsible for cleaving the Tyr842-Met843 peptide bond of von Willebrand factor (vWF). This metalloprotease was purified from Cohn Fraction-I precipitate of human pooled plasma by the combination of gel filtration, DEAE chromatog., and preparative PAGE in the presence of SDS. The NH2-terminal amino acid sequence of the isolated protein was: AAGGILHLELLVAVGPDVFQAHQEDTRRY. Based on this sequence, we searched human genomic and EST databases, and identified compatible nucleotide sequences. These results suggested that this protein is a novel metalloprotease, a member of the family of a disintegrin and metalloprotease with thrombospondin type-1 motifs (ADAMTS), and its genomic DNA was mapped to human chromosome 9q34. Multiple human tissue northern blotting anal. indicated that the mRNA encoding this protease spanned approx. 5 kilobases and was uniquely expressed in the liver. Furthermore, we determined the cDNA sequence encoding this protease, and found that this protease was comprised of a signal peptide, a proregion followed by the putative furin cleavage site, a reprolysin-type zinc-metalloprotease domain, a disintegrin-like domain, a thrombospondin type-1 (TSP1) motif, a cysteine-rich region, a spacer

domain, and COOH-terminal TSP1 motif repeats.

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L74 ANSWER 2 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:154827 HCAPLUS

DOCUMENT NUMBER: 112:154827

TITLE: DEAE-chromatographic separation of plasma proteins

INVENTOR(S):
Burnouf, Thierry; Burnouf, Myriana

PATENT ASSIGNEE(S): Centre Regional de Transfusion Sanguine de Lille, Fr.

SOURCE: PCT Int. Appl., 17 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.		DATE	APPLICATION NO.		DATE	
WO 8912065 W: AU, DK, FI	A1	19891214	WO 1989-FR50		19890208	<
RW: AT, BE, CH,	DE, FR	, GB, IT,	LU, NL, SE			
FR 2632309	A1	19891208	FR 1988-7530		19880607	<
FR 2632309						
AU 8930682	A1	19900105	AU 1989-30682		19890208	<
AU 622436						
EP 359593	A1	19900321	EP 1989-400348		19890208	<
· EP 359593	B1	19950426				
EP 359593	B2	20040107				
			GR, IT, LI, LU, NL,			
JP 03501974	T2	19910509	JP 1989-502342		19890208	<
AT 121750	E	19950515	JP 1989-502342 AT 1989-400348		19890208	<
ES 2070919	Т3	19950616	ES 1989-400348		19890208	<
CA 1340742	A1	19990914	CA 1989-590961		19890214	<
FI 96210	R		FI 1990-397		19900125	<
FI 96210	С .	19960527				
NO 9000529	Α	19900406	NO 1990-529		19900205	<
NO 177188	В	19950424				
NO 177188	B C	19950802				
DK 9000299	Α	19900328	DK 1990-299		19900206	<
DK 175322	B1	20040823				
SU 1837880	A3	19930830	SU 1990-4743107		19900206	<
KR 9710923	B1	19970702	KR 1990-70239		19900206	<
` US 5252709	Α		US 1990-460972		19900406	<
AU 9211383	A1	19920514	AU 1992-11383		19920303	<
DK 200400872	A5	20040603				
PRIORITY APPLN. INFO.:		,	FR 1988-7530		19880607	<
			WO 1989-FR50	Α	19890208	<
			DK 1990-299		19900206	<

AB A method for separating proteins from human or animal plasma comprises subjecting a solubilized fraction of cryopptd. plasma to a single step of chromatog. on an anion-exchange resin which has a moderate ionic character and that favors hydrophobic interactions, permitting retention of very large mols. The proteins are eluted by increasing the ion strength of the buffer (e.g., by adding NaCl). A high-purity concentrate of factor VIII was obtained using Fractogel TSK-DEAE 650, e.g. for use in the treatment of hemophilia A (no data). In the process of obtaining factor VIII, concentrate of fibrinogen, von Willebrand's factor, and fibronectin were also obtained. These

proteins were further purified by chromatog.

L74 ANSWER 3 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1988:479751 HCAPLUS

DOCUMENT NUMBER:

109:79751

TITLE:

Process for the preparation of lyophilized and

heat-treated blood coagulation factor VIII

INVENTOR(S):

Schwarz, Otto; Linnau, Yendra

PATENT ASSIGNEE(S):

Immuno A.-G. fuer Chemisch-Medizinische Produkte,

Austria

SOURCE:

Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

DOCUMENT TYPE: ·

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA.	FENT NO.		KIND	DATE	AP:	PLICATION NO.		DATE	
		-							
EP	270516		A2	19880608	EP	1987-890237		19871029	<
EP	270516		A3	19880622					
EP	270516		B1	19910403					
	R: AT, BE	CH,	DE, E	ES, FR, GB,	IT, L	I, LU, NL, SE			
AT	8602923		Α	19900615	AT	1986-2923		19861103	<
AT	391808		В	19901210					
US	4814435		Α	19890321	US	1987-108458		19871015	<
CA	1297011		A1	19920310	CA	1987-549552		19871019	<
AT	62133		E	19910415	AT	1987-890237		19871029	<
ES	2028913		T 3	19920716	ES	1987-890237		19871029	<
DK	8705735		Α	19880504	DK	1987-5735		19871102	<
JP	63132899		A2	19880604	JP	1987-278985		19871102	<
JP	07030117		B4	19950405					
PRIORITY	APPLN. INFO).:			AT	1986-2923	А	19861103	<
					EP	1987-890237	A	19871029	<

AB . A process for the preparation of a factor VIII (I)-containing fraction with a specific activity of <2.5 units/mg protein and IgG content of <10 mg/1000 units I is described. In the presence of sulfate group-containing polysaccharides, proteins are precipitated at neutral pH and removed from a I-containing plasma fraction, then I is precipitated from this by treatment with a protein precipitating agent, such as (NH4)2SO4, glycine /(NH4)2SO4, glycine/NaCl, Na2SO4, (NH4)2SO4/Na citrate, or glycine/citrate. The I-containing precipitate is dissolved and lyophilized and the lyophilizate is heat-treated for virus inactivation. A cryoppt. (150 g) was dissolved in a solution containing 900 mL 3-Na citrate buffer, 90 mg sulfate group-containing polysaccharide (SP 54), 9 units Atheplex, and 27,000 units apotinin and the pH was adjusted to 6.25 at 4°, the protein-containing precipitate was removed and the concentration of glycine and (NH4)2SO4 was adjusted to 120 g/L and 85 g/L, resp. The resulting precipitate was dissolved in NaCl/citrate buffer and dialyzed, the glycine and albumin concns. in the dialyzate were adjusted to 10 mg/L and 2 mg/L, resp. and the solution was lyophilized and heat-treated. The activity of I (moisture content 7.9%) after heat-treatment for 10 h at 60° was 53.6 units/mL, after 100 h at 60° it was 40.0 units/mL, whereas for a non-treated lyophilizate the activity was 54.7 units/mL.

L74 ANSWER 4 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1986:39704 HCAPLUS

DOCUMENT NUMBER:

104:39704

TITLE: High purity antihemophilic factor concentrate

INVENTOR(S): Mitra, Gautam; Ng, Paul K.
PATENT ASSIGNEE(S): Miles Laboratories, Inc., USA

SOURCE: U.S., 8 pp. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 4543210	A	19850924	US 1984-658081		19841004 <
CA 1243950	A1	19881101	CA 1985-486007	·	19850628 <
JP 61087626	A2	19860506	JP 1985-167835		19850731 <
JP 06076337	B4	19940928			•
EP 176926	A2	19860409	EP 1985-112070		19850924 <
EP 176926	A3	19871028			
EP 176926	B1	19890628	·		
R: AT, BE, CH	, DE, FI	R, GB, IT,	LI, LU, NL, SE		
AT 44236	E	19890715	AT 1985-112070		19850924 <
DK 8504507	Α	19860405	DK 1985-4507		19851003 <
DK 163107	В	19920120			
PRIORITY APPLN. INFO.:			US 1984-658081	Α	19841004 <
		•	EP 1985-112070	Α	19850924 <

AB High-purity antihemophilic factor, having high sp. activity and low fibrinogen impurities, is prepared from blood plasma or a blood plasma fraction by precipitation with polyethylene glycol (PEG) plus Al (OH) 3, followed by a 2nd precipitation with PEG plus glycine and NaCl. Thus, 400 g cryoppt. in 4 volume H2O was treated with 64 mL 2% Al (OH) 3 and PEG 3350, to obtain 3% PEG in the solution The pH was adjusted to 6.7 with 1M AcOH. The solution was cooled to 9° and centrifuged at 8500 rpm, for 15 min. The supernatant was separated and treated with 148 g PEG 3350. From this solution, the factor VIII was precipitated

with 13% glycine (240.5 g) and 14% NaCl (259 g), at pH 5.7. The precipitate was washed with glycine/NaCl buffer at 2°, centrifuged and dissolved in 400 g citrate-NaCl-glycine buffer (pH 7.2-7.4) to give a high-purity antihemophilic factor solution

L74 ANSWER 5 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:119614 HCAPLUS

DOCUMENT NUMBER: 102:119614

TITLE: Antihemophilic factor VIII concentrate INVENTOR(S): Rasmussen, Mirella Ezban; Nordfang, Ole

PATENT ASSIGNEE(S): Nordisk Insulinlaboratorium, Den.

SOURCE: PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
		·		-	
WO 8403628	A1	19840927	WO 1984-DK19	•	19840320 <

W: AU, DK, FI, JP, NO, US

RW: AT, BE, CH, DE, FR, GB, LU, NL, SE

```
DK 8305494
                               19840922
                                          DK 1983-5494
                                                                 19831201 <--
                       Α
                       В
    DK 157170
                               19891120
    DK 157170
                        С
                               19960812
                                          DK 1984-646
    DK 8400646
                        Α
                               19841110
                                                                 19840214 <--
    AU 8428101
                        A1
                                          AU 1984-28101
                               19841009
                                                                 19840320 <--
    EP 148843
                        A1
                               19850724
                                          EP 1984-901337
                                                                 19840320 <--
    EP 148843
                        B1
                               19900124
        R: AT, BE, CH, DE, FR, GB, LI, LU, NL, SE
    AT 49706
                                          AT 1984-901337
                        E
                               19900215
                                                                 19840320 <--
    US 4650858
                        Α
                               19870317
                                          US 1984-673753
                                                                 19841030 <--
    FI 8404557
                                         FI 1984-4557
                        Α
                               19841120
                                                                 19841120 <--
    FI 80382
                       В
                               19900228
    FI 80382
                        C
                               19900611
                       Α
    NO 8404610
                               19841120
                                          NO 1984-4610
                                                                 19841120 <--
                       В
    NO 169875
                               19920511
    NO 169875
                        С
                               19920819
PRIORITY APPLN. INFO.:
                                          DK 1983-1274
                                                             A 19830321 <--
                                          DK 1984-646
                                                             A 19830509 <--
                                          DK 1983-5494
                                                             A 19831201 <--
                                          EP 1984-901337
                                                             A 19840320 <--
                                          WO 1984-DK19
                                                             A 19840320 <--
```

AB Pure blood-coagulation Factor VIII (I) [9001-27-8] with high solubility and activity, free of other proteins, especially Igs, is obtained by fractionating a cryoppt. with PEG [25322-68-3] such that at least 80% of the fibrinogen is 1st precipitated and then precipitating in a subsequent step with more

PEG in the presence of a salting-in agent such as an amino acid or carbohydrate. The high purity of I permits it to be redissolved in a very small volume of aqueous injection medium in a concentration of

45-500 units/mL. PEG with a mol. weight of 3000 is preferred, its concentration in

the 1st precipitate being 2-6% and in the 2nd precipitate 6-20% by weight $\,$ The pH in the

1st precipitate is 6.0-8.5 and in the 2nd precipitate 5.0-8.5. The temperature in both steps

is 18-22°. Cryoppt. from human blood plasma, other Factor VIII-containing blood fractions, and blood fractions from other animal species can be used. Thus, a cryoppt. from 600 mL human blood plasma was dissolved in 28 mL citrate/glucose buffer, freed of prothrombin by adsorption on Al2O3, then 4% PEG was added, the pH adjusted to 6.4 with 0.5M HCl, the mixture incubated for 30 min at room temperature, the precipitated protein

removed, lysine-HCl [657-27-2] 0.55 mol/mL was added, followed by addition of 8% PEG, the pH adjusted to 6.3 with 0.1M NaOH, the mixture incubated for 45 min at room temperature, centrifuged, and the precipitate redissolved in citrate/glucose-NaCl, pH 7.8. The redissolved precipitate has a specific activity of 12 units I/mg protein, and yield of 20%.

```
L74 ANSWER 6 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
```

ACCESSION NUMBER: 1981:546586 HCAPLUS

DOCUMENT NUMBER: 95:146586

TITLE: The potential of heparin as an agent for precipitation

of plasma fibronectin (CIg) and certain components of

the plasma factor VIII complex

AUTHOR(S): Mosesson, Michael W.; Amrani, David L.

CORPORATE SOURCE: Downstate Med. Cent., State Univ. New York, Brooklyn,

NY, 11203, USA

SOURCE: Developments in Biochemistry (1981),

12(Chem. Biol. Heparin), 105-11 CODEN: DEBIDR; ISSN: 0165-1714

DOCUMENT TYPE: Journal LANGUAGE: English

AB A heparin (I) concentration of 0.15-0.25~mg/mL was optimal for precipitation of plasma

fibronectin and coagulation factor VIII components, and subsequent I removal was accomplished by TEAE-cellulose. Approx. 85% of the plasma fibronectin was precipitated at 0.2 mg I/mL. Less than 5% of the factor VIII procoagulant activity was precipitated by I; however it could be recovered in

supernatant by cryopptn., cold EtOH, and <code>glycine.</code> Willebrand ristocetin cofactor was precipitated by I ($\geq 95\%$ of the activity), and Willebrand antigen was distributed approx. equally between the <code>ppt.</code> and supernatant <code>fractions.</code>

L74 ANSWER 7 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

USA

ACCESSION NUMBER:

1980:90181 HCAPLUS

DOCUMENT NUMBER:

92:90181

TITLE:

the

Preparation and properties of bovine factor VIII

(antihemophilic factor)

AUTHOR (S):

Vehar, Gordon A.; Davie, Earl W.

CORPORATE SOURCE:

Dep. Biochem., Univ. Washington, Seattle, WA, 98195,

Biochemistry (1980), 19(3), 401-10 CODEN: BICHAW; ISSN: 0006-2960

SOURCE:

DOCUMENT TYPE: Journal LANGUAGE: English

AB Factor VIII was purified approx. 300,000-fold from bovine plasma by ammonium sulfate fractionation, glycine pptn

., DEAE-Sephadex column chromatog., sulfate-Sepharose column chromatog., Sephadex G-200 gel filtration, and factor X-Sepharose column chromatoq. The highly purified preparation migrated as a triplet on Na dodecyl sulfate-urea-polyacrylamide gel electrophoresis with apparent mol. wts. of 93,000, 88,000, and 85,000. The coagulant activity of the purified prepns. was inhibited by antibodies raised in rabbits against either the purified factor VIII protein or a preparation of factor VIII/von Willebrand factor. Antibodies to the purified protein also inhibited the coagulant activity of factor VIII/von Willebrand factor prepns. The purified factor VIII contained no platelet-aggregating activity, as measured in human platelet-rich plasma. The purified preparation of factor VIII was required for the activation of factor X in the presence of factor IXa, Ca, and phospholipid. It was activated about 30-fold by thrombin or factor Xa plus Ca and phospholipid, and each of these reactions was accompanied by a change in the Na dodecyl sulfate-urea-polyacrylamide gel electrophoresis pattern of the protein. Factor VIII was rapidly inactivated by bovine-activated protein C in a reaction requiring Ca and phospholipid. This reaction was also associated with a change in the Na dodecyl sulfate-urea-polyacrylamide gel electrophoresis pattern of the highly purified protein. These expts.

L74 ANSWER 8 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1975:520820 HCAPLUS

the triplet observed on polyacrylamide gels is factor VIII.

DOCUMENT NUMBER:

83:120820

TITLE:

Stabilization of AHF [antihemophilic factor]

PATENT ASSIGNEE(S):

Baxter Laboratories, Inc., USA

involving 3 highly specific serine proteases support the conclusion that

SOURCE:

Brit., 5 pp.

CODEN: BRXXAA

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
GB 1372515	A	19741030	GB 1973-23187		19730515 <
US 3803115	A	19740409	US 1972-254148		19720517 <
ZA 7303138	A	19740327	ZA 1973-3138		19730509 <
JP 49056695	A2	19740601	JP 1973-54039		19730514 <
JP 59006845	B4	19840215			
BE 799525	A1	19730831	BE 1973-131099		19730515 <
NL 7306806	A	19731120	NL 1973-6806		19730516 <
FR 2184898	A1	19731228	FR 1973-17649		19730516 <
CA 1007986	A1 .	19770405	CA 1973-171527		19730516 <
NO 142381	В	19800505	NO 1973-2027		19730516 <
NO 142381	С	19800813	·		
· CH 630804.	A	19820715	CH 1973-7001		19730516 <
AU 7355849	A1 ·	19741121	AU 1973-55849		19730517 <
AT 7304335	A	19750415	AT 1973-4335		19730517 <
ES 414823	A1	19760201	ES 1973-414823		19730517 <
DK 136016	В	19770801	DK 1973-2745		19730517 <
SE 430020	В	19831017	SE 1973-7018		19730517 <
SE 430020	С	19840126			
US 29698	E	19780711	US 1976-674270		19760406 <
PRIORITY APPLN. INFO.:			US 1972-254148	Α	19720517 <

AB AHF was obtained in improved yield from blood plasma by addition of 0.01-10 units heparin [9005-49-6] per ml to a cryoppt. concentrate This concentrate was precipitated

with 3-4% polyethylene glycol 4000, the resultant supernatant precipitated with .apprx.10% polyethylene glycol 4000, and this precipitate fractionated with 1.8M glycine. Heparin increased the final AHF yield by 25-35% over the nonheparinized procedure.

L74 ANSWER 9 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1972:562646 HCAPLUS

DOCUMENT NUMBER:

77:162646

TITLE:

Fractionation of plama using glycine and

polyethylene glycol

INVENTOR (S):

Fekete, Lajos F.; Shanbrom, Edward

PATENT ASSIGNEE(S):

Baxter Laboratories, Inc.

SOURCE:

U.S., 7 pp. Continuation-in-part of U.S. 3,560,475 (CA

74;96677c).

CODEN: USXXAM

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

•	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 3682881	A	19720808	US 1970-77491	19701002 <
	GB 1303408	A	19730117	GB 1971-76017	19711004 <
1	CA 962591	A1	19750211	CA 1971-124332	19711004 <
PRIOR	ITY APPLN. INFO.:			US 1970-77491 A	19701002 <

AB Concns. of antihemophilic factor A and prothrombin complex are prepared from citrated blood plasma by an initial fractionation with glycine

followed by multiple fractionations of the antihemophilic factor-containing precipitate and the prothrombin complex-containing supernate with polyethylene glycol; the precipitate is given an addnl. fractionation with glycine and the supernate is given an intermediate adsorption with tribasic Ca phosphate. A fractionation flow chart is included.

L74 ANSWER 10 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1972:22762 HCAPLUS

DOCUMENT NUMBER: 76:22762

TITLE: Large-scale preparation of factor VIII-concentrate

from frozen cryoethanol precipitate

AUTHOR(S): Wickerhauser, M.

CORPORATE SOURCE: Blood Res. Lab., Am. Natl. Red Cross, Washington, DC,

USA

SOURCE: Thrombosis et Diathesis Haemorrhagica, Supplementum (

1971), No. 43, 165-73

CODEN: TDHSAF; ISSN: 0375-9997

DOCUMENT TYPE: Journal LANGUAGE: English

The original polyethylene glycol (PEG) procedure was modified for the

large-scale recovery of antihemophilic factor (AHF) from frozen

cryoethanol precipitate (cryo). Frozen cryo, obtained by combined cryopptn.

and

3% EtOH precipitation of freshly frozen plasma prior to large-scale Cohn fractionation, was extracted with Tris buffer, 60 min at 30°, starting with 4.6 kg cryo. The extract was treated with Al(OH)3 gel. The precipitate

was

separated by means of a continuous flow centrifuge, and discarded. Na citrate was added to the solution, followed by citric acid to pH 6.05. PEG 4000 was added to a final concentration of 4.8% to precipitate the fibrinogen fraction. The AHF was then precipitated by precipitation at 11% PEG. Excess

PEG

and

was removed by washing with buffer containing PEG, Tris, and Na citrate at pH 6.0. The precipitate was reconstituted in buffer containing Tris, Na citrate,

 ${\tt NaCl}$ (0.075M) at pH 7.0. The resulting solution was sterilized by filtration. The filtered concentrate was frozen and lyophilized. Filtrable factor VIII concs. were obtained, 80-100-fold purified, with a yield of 5 AHF units/g cryo.

L74 ANSWER 11 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1970:82961 HCAPLUS

DOCUMENT NUMBER: TITLE:

72:82961 Stable, high-potency human antihemophilic factor (AHF)

PATENT ASSIGNEE(S):

Baxter Laboratories, Inc.

SOURCE:

Brit., 6 pp. CODEN: BRXXAA

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1178958		19700128		<
DE 1767285			DE	
FR 1589414			FR	
US 3631018		19710000	US	<
ITY APPLN. IN	FO.:		US .	19670501 <
	GB 1178958 DE 1767285 FR 1589414 US 3631018	GB 1178958 DE 1767285 FR 1589414	GB 1178958 19700128 DE 1767285 FR 1589414 US 3631018 19710000	GB 1178958 19700128 DE 1767285 DE FR 1589414 FR US 3631018 19710000 US

AB A stable AHF of high potency is prepared by the fractionation of a cryoppt. concentrate of human or animal AHF. Cryoppt. refers to the precipitate which

is

obtained from freezing of the blood plasma at ≤4° and separating the precipitate formed from the supernatant. Fractionation was accomplished by precipitating the redissolved fraction of the AHF concentrate with a 1.3-1.8M aqueous solution of glycine, followed by the recovery and redissolution of the precipitate Recovery was accomplished either by centrifugation or filtration and redissoln. was achieved by warming and agitating in a citrated saline solution An alternative method was two successive pptns. with polyethylene glycol (PEG) (mol. weight 200-20,000, but PEG 4000 was preferred). The first pptn was accomplished with 3-4% PEG by weight of the cryoppt. of AHF followed by recovery of the resulting supernate and subsequent precipitation with 10% glycol by weight of the supernate followed by

recovery of the resulting precipitate $\,$ The PEG precipitation step could also be employed

in combination with the **glycine** precipitation step. The fractionated cryoppt. concentrate of AHF was treated by chromatographic purification by successive absorption, and elution from an Ecteola cellulose resin, either by column or batch techniques. The concentrate purified by this method was suitable for administration either by i.m. or i.v. administration. The Ecteola purified concentrate was free of fibrinogen by the addition of thrombin and

by immunoelectrophoresis.

L74 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1968:112707 HCAPLUS

DOCUMENT NUMBER: 68:112707

TITLE: Chromatographic purification of fibrinogen

AUTHOR(S): Finlayson, John S.

CORPORATE SOURCE: Nat. Insts. of Health, Bethesda, MD, USA

SOURCE: Fibrinogen (1968), 39-59

CODEN: 19YKAU Conference

DOCUMENT TYPE: Conferenc LANGUAGE: English

AB Fibrinogen (I) is apparently chromatographically heterogeneous. I was prepared by previously described methods and also by a "phosphate" and a "glycine" method (details not given). I was heterogeneous regardless of its source or the method of preparation More than 30 sep. forms of I were obtained from a single sample of plasma, in which clottable protein (II) was essentially constant. The distribution of II in the elution patterns (in column chromatog.) from the plasma in patients with macroglobulinemia, hemophilia A, von Willebrand's disease, or dysfibrinogenemia did not differ from that in normal I, although in dysfibrinogenemia 1 peak was eluted later than usual. In human I, the 2 major peaks separable by DEAE-cellulose chromatog. were present in I isolated from umbilical cord blood and in the high-solubility I not precipitated in Cohn fraction I. Chromatographic properties of I from different species of animals are considered. 60 references.

L74 ANSWER 13 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1967:408602 HCAPLUS

DOCUMENT NUMBER: 67:8602

TITLE: A semiautomatic one-stage factor VIII assay with a

commercially prepared standard

AUTHOR(S): Simone, Joseph V.; Vanderheiden, Jane; Abildgaard,

Charles F.

CORPORATE SOURCE:

Coll. of Med., Univ. of Illinois, Chicago, IL, USA

SOURCE:

Journal of Laboratory and Clinical Medicine (

1967), 69(4), 706-12

CODEN: JLCMAK; ISSN: 0022-2143

DOCUMENT TYPE:

Journal

LANGUAGE: English

A one-stage factor VIII assay with a semiautomatic clot-timer and a com. standard plasma is described. Compared to existing methods, this assay is tech. simpler, more quickly performed, and less subject to human error. The 95% confidence limits of individual assays, which is a superior estimate of uncertainty for parallel-line bioassays, averaged 80-127% of the observed result even at very high or very low levels. The mean factor VIII level for 60 normal subjects was 101% with a range of 58-200%. Serial factor VIII assays in 6 normal subjects revealed wide fluctuations over the 60-day study period. This method also allows assay of factor VIII in cryoppt. and glycine-precipitate fractions of plasma.

. L74 ANSWER 14 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1959:29433 HCAPLUS

DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 53:5369f-g

53:29433

TITLE:

Purification of antihemophilic globulin. I. Stability

of antihemophilic globulin activity in fraction I-O

and a method for its partial separation from fibrinogen

AUTHOR (S):

Blomback, Margareta

SOURCE:

Arkiv foer Kemi (1958), 12, 387-96

CODEN: ARKEAD; ISSN: 0365-6128

DOCUMENT TYPE:

Journal

LANGUAGE:

Unavailable

When fraction I-O (purified Cohn fraction I) is extracted with glycine at pH 6.8 instead of pH 6.0 as originally devised, a good yield of antihemophilic globulin activity (AHA) is obtained. Rapid freezing of fraction I-O or fraction I-1-A at about -30° (in citrate solution at pH 6.3) gave the most constant AHG values. Slow freezing at about -15° produces great loss of activity; at -5° almost all activity is lost. A method is presented for separation of AHA from the fibrinogen in fraction I-O by precipitation at ionic strength 0.1 in the presence of glycine, with about 80% yield and good purification. The fibrinogen can be recovered from the supernatant by precipitation with a yield of about 70% of the amount present in fraction I-O and a

coagulability of about 92%. 48 references.

```
=> d que stat 169
L54
              1 SEA FILE=REGISTRY ABB=ON 9001-27-8/RN
              1 SEA FILE=REGISTRY ABB=ON 109319-16-6/RN
L55 ·
              1 SEA FILE=REGISTRY ABB=ON 56-40-6/RN
L56
              1 SEA FILE=REGISTRY ABB=ON 7647-14-5/RN
L57
L58
          10492 SEA FILE=HCAPLUS ABB=ON (L54 OR ?FACTOR?(W)VIIIC) OR (L55 OR
                VON? (W) ?WILLEBRAND?)
L59
             37 SEA FILE=HCAPLUS ABB=ON L58 AND ?PRECIPITAT? (4A) ?FRACTION?
             12 SEA FILE=HCAPLUS ABB=ON L59 AND (L56 OR ?GLYCINE?)
L60
              6 SEA FILE=HCAPLUS ABB=ON L59 AND (L57 OR NACL OR ?SODIUM?(W)?CH
L61
                LORIDE?)
             14 SEA FILE=HCAPLUS ABB=ON L60 OR L61
L62
              2 SEA FILE=HCAPLUS ABB=ON L62 AND (?AMINO?(W)?ACID? OR (?ALKALI?
L63
                 OR ?ALKALINE?) (W) ?METAL?)
L64
              3 SEA FILE=HCAPLUS ABB=ON L59 AND (?AMINO?(W)?ACID? OR ?ALKAL?(W
                )?METAL?)
L65
             15 SEA FILE=HCAPLUS ABB=ON L62 OR L63 OR L64
             2 SEA FILE=HCAPLUS ABB=ON L65 AND (?STABILIZ? OR ?PASTEURIZ?)
L66
             15 SEA FILE=HCAPLUS ABB=ON L65 OR L66
L67
L68
             11 SEA L67
L69
              6 DUP REMOV L68 (5 DUPLICATES REMOVED)
=> d ibib abs 169 1-6.
L69 ANSWER 1 OF 6
                       MEDLINE on STN
                                                        DUPLICATE 1
ACCESSION NUMBER:
                    2001528350
                                   MEDLINE
```

DOCUMENT NUMBER: PubMed ID: 11574066

TITLE: A novel human metalloprotease synthesized in the liver and

secreted into the blood: possibly, the von

Willebrand factor-cleaving protease?.

Erratum in: J Biochem (Tokyo) 2001 Nov;130(5):719 COMMENT: AUTHOR:

Soejima K; Mimura N; Hirashima M; Maeda H; Hamamoto T;

Nakagaki T; Nozaki C

CORPORATE SOURCE: First Research Departmen, The Chemo-Sero-Therapeutic

Research Institute, Kumamoto 869-1298, Japan..

soejima@kaketsuken.or.jp

SOURCE: Journal of biochemistry, (2001 Oct) 130 (4) 475-80.

Journal code: 0376600. ISSN: 0021-924X.

PUB. COUNTRY: Japan

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals OTHER SOURCE: GENBANK-AB069698

ENTRY MONTH: 200201

ENTRY DATE: Entered STN: 20011001

> Last Updated on STN: 20020226 Entered Medline: 20020130

AΒ We identified a novel metalloprotease, which could be responsible for cleaving the Tyr842-Met843 peptide bond of von Willebrand factor (vWF). This metalloprotease was purified from Cohn Fraction-I precipitate of human pooled plasma by the combination of gel filtration, DEAE chromatography, and preparative polyacrylamide gel electrophoresis in the presence of SDS. NH2-terminal amino acid sequence of the isolated protein was: AAGGILHLELLVAVGPDVFQAHQEDTRRY. Based on this sequence, we searched human genomic and EST databases, and identified compatible nucleotide sequences. These results suggested that this protein is a novel metalloprotease, a member of the family of a disintegrin and metalloprotease with thrombospondin type-1 motifs (ADAMTS), and its

genomic DNA was mapped to human chromosome 9q34. Multiple human tissue northern blotting analysis indicated that the mRNA encoding this protease spanned approximately 5 kilobases and was uniquely expressed in the liver. Furthermore, we determined the cDNA sequence encoding this protease, and found that this protease was comprised of a signal peptide, a proregion followed by the putative furin cleavage site, a reprolysin-type zinc-metalloprotease domain, a disintegrin-like domain, a thrombospondin type-1 (TSP1) motif, a cysteine-rich region, a spacer domain, and COOH-terminal TSP1 motif repeats.

L69 ANSWER 2 OF 6 MEDLINE ON STN ACCESSION NUMBER: 84250234 MEDLINE DOCUMENT NUMBER: PubMed ID: 6330903

TITLE: Activated protein C inhibitor.

AUTHOR: Suzuki K

SOURCE: Seminars in thrombosis and hemostasis, (1984 Apr) 10 (2)

154-61.

Journal code: 0431155. ISSN: 0094-6176.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198407

ENTRY DATE: Entered STN: 19900320

Last Updated on STN: 19990129 Entered Medline: 19840727

L69 ANSWER 3 OF 6 MEDLINE on STN DUPLICATE 2

ACCESSION NUMBER: 80130523 MEDLINE DOCUMENT NUMBER: PubMed ID: 7356933

TITLE: Preparation and properties of bovine factor VIII

(antihemophilic factor).

AUTHOR: Vehar G A; Davie E W

SOURCE: Biochemistry, (1980 Feb 5) 19 (3) 401-10.

Journal code: 0370623. ISSN: 0006-2960.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198005

ENTRY DATE: Entered STN: 19900315

Last Updated on STN: 19900315 Entered Medline: 19800523

AB Factor VIII has been purified approximately 300000-fold from bovine plasma by ammonium sulfate fractionation, glycine

precipitation, DEAE-Sephadex column chromatography,

sulfate--Sepharose column chromatography, Sephadex G-200 gel filtration, and factor X--Sepharose column chromatography. The highly purified preparation migrated as a triplet on sodium dodecyl sulfate/urea--polyacrylamide gel electrophoresis with apparent molecular weights of 93000, 88000, and 85000. The coagulant activity of the purified preparations was inhibited by antibodies raised in rabbits against eithe

preparations was inhibited by antibodies raised in rabbits against either the purified factor VIII protein or a preparation of factor VIII/

von Willebrand factor. Antibodies to the purified

protein also inhibited the coagulant activity of factor VIII/von Willebrand factor preparations. The purified factor VIII contained no platelet-aggregating activity, as measured in human

platelet-rich plasma. The purified preparation of factor VIII was required for the activation of factor X in the presence of factor IXa,

calcium, and phospholipid. It was activated about 30-fold by thrombin or factor Xa plus calcium and phospholipid, and each of these reactions was accompanied by a change in the sodium dodecyl sulfate/urea--polyacrylamide gel electrophoresis pattern of the protein. Factor VIII was rapidly inactivated by bovine-activated protein C in a reaction requiring calcium and phospholipid. This reaction was also associated with a change in the sodium dodecyl sulfate/urea--polyacrylamide gel electrophoresis pattern of the highly purified protein. These experiments involving three highly specific serine proteases support the conclusion that the triplet observed on polyacrylamide gels is factor VIII.

L69 ANSWER 4 OF 6 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

74025944 EMBASE ACCESSION NUMBER:

DOCUMENT NUMBER: 1974025944

Isolation and characterization of human factor VIII TITLE:

(antihemophilic factor).

AUTHOR: Legaz M.E.; Schmer G.; Counts R.B.; Davie E.W.

CORPORATE SOURCE: Dept. Biochem., Univ. Washington Sch. Med., Seattle, Wash.

98195, United States

SOURCE: Journal of Biological Chemistry, (1973) Vol. 248, No. 11,

pp. 3946-3955.

CODEN: JBCHA3

DOCUMENT TYPE: Journal

FILE SEGMENT: 029 Clinical Biochemistry

> 025 Hematology

LANGUAGE: English

Factor VIII (antihemophilic factor) has been purified approximately 500 AR fold from the cryoprecipitate fraction of human plasma. The isolation procedure involves adsorption of contaminants with Al(OH)3, column chromatography on tricalcium citrate cellulose, precipitation with concanavalin A, and an agarose gel filtration step. The final product is homogeneous when examined by zone electrophoresis, sedimentation equilibrium, and immunoelectrophoresis. The molecular weight determined by sedimentation equilibrium is $1.12 \times 106 \pm 98,000$. After reduction of the protein with 2 mercaptoethanol or dithiothreitol, subunits are formed which migrate as one band in polyacrylamide gel electrophoresis and zone electrophoresis. The subunits are heterogeneous however, in the ultracentrifuge, apparently due to substantial aggregation. The smallest species which could be detected has a molecular weight of $1.05 \times 105 \pm 5,000$. The molecular weight of the subunit determined by sodium dodecyl sulfate (SDS) gel electrophoresis was 240,000. The latter value may be high, however, due to the fact that human Factor VIII contains approximately 6% carbohydrate (hexose, hexosamine, and neuraminic acid) and the molecular weights of glycoproteins determined by SDS gel electrophoresis tend to be high. Antibodies prepared in rabbits against human Factor VIII inhibit both human and bovine Factor VIII activity. Antibodies to the highly purified human Factor VIII also form a precipitin line in immunoelectrophoresis experiments with the cryoprecipitate fraction prepared from hemophilic plasma, indicating that an abnormal Factor VIII molecule is present in the plasma of individuals with classic hemophilia. Other general properties of human Factor VIII, including its amino acid composition, thrombin modification, and turnover in hemophilic dogs, are also reported.

L69 ANSWER 5 OF 6 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER: 74155784 EMBASE DOCUMENT NUMBER:

1974155784

TITLE:

Von Willebrand's disease in Sweden.

AUTHOR:

Silwer J.

CORPORATE SOURCE:

Coagulat. Lab., Univ. Lund, Sweden

SOURCE:

Acta Paediatrica Scandinavica, (1973) Vol. 62, No. 238

sup., pp. 159p.. CODEN: APSVAM

DOCUMENT TYPE:

Journal

FILE SEGMENT:

037 Drug Literature Index

007 Pediatrics and Pediatric Surgery

022 Human Genetics 025 Hematology 030 Pharmacology

LANGUAGE:

English

AΒ The material consisted of all patients with a firm or highly probable diagnosis of von Willebrand's disease and seen at the coagulation laboratories in Malmo, Stockholm or Gothenburg in the years 1956-1967. Inquiries were made into all of the families of the patients included in the investigation. When possible, laboratory studies were made of the closest relatives of the probands, particularly their parents, siblings and children. The material presumably includes all known cases of von Willebrand's disease in Sweden up to the end of The diagnosis requires special laboratory facilities, at present available only in Malmo, Stockholm and Gothenburg. The investigation included a careful inquiry into the probands' history regarding bleeding symptoms and the information obtained was, as a rule, supplemented by data from earlier hospital records in those cases in which the patients had sought medical advice or had been admitted to hospital because of their hemorrhagic symptoms. In most cases, and particularly in probands, a complete investigation was made of the patient's bleeding and coagulation Examination of relatives of the probands was often limited to determinations of the bleeding time according to Duke and Ivy and of the antihemophilic factor (AHF). The probands were all examined several times and at least on one occasion during a period when they were not bleeding. Relatives were also often examined more than once, especially in doubtful cases. Von Willebrand's disease is characterised by low AHF activity in the plasma and a prolonged bleeding time. criteria together with reduced platelet adhesiveness have hitherto constituted the diagnostic criteria for von Willebrand 's disease. Typical of the disease is also the response to infusion of factor VIII concentrate (Fraction I O, cryoprecipitate Infusion of such concentrates in patients with von Willebrand's disease normalizes the bleeding time and often produces a retarded increase in AHF activity in the plasma. Some of the Swedish patients with von Willebrand's disease presented in this study were examined immunologically for AHF related antigen. 23 families from the Swedish series of von Willebrand's disease were examined with the immunological method. It was found that 51 patients belong to 15 families had a low content of AHF related antigenic material. All affected members of these families had low values, while unaffected members had normal values. However, 19 patients belonging to 8 families had normal values of AHF related protein. In families belonging to type 1 the mode of inheritance was well compatible with autosomal dominant heredity. In the 8 families with von Willebrand's disease of type 2, i.e. with a normal content of AHF related protein, none of the affected males had affected sons, and of the members studied, none of the affected men studied had healthy daughters. The mode of inheritance in these families is obviously X chromosomal. As a rule, the male members had symptoms more often than

the females, in whom the disease was discovered in family studies of members who had often had no symptoms. They were thus sometimes only carriers of the disease. It would thus appear as if von Willebrand's disease, which has hitherto been regarded as a single clinical entity with a unique molecular pathology, is in reality 2 separate diseases. Type 1 corresponds to the classical type of von Willebrand's disease with prolonged Duke bleeding time in severe cases and, as a rule, with low platelet adhesiveness according to Salzman. Severe cases with prolonged Duke bleeding time also occur in type 2 but, as a rule, the Duke bleeding time is normal and only the Ivy bleeding time prolonged. Further, adhesiveness according to Salzmann is often normal. It appears that von Willebrand's disease, type 2, is a separate disease with a clinical picture closely resembling that of the classical type of von Willebrand's disease, but with certain features resembling those of mild hemophilia A, especially regarding its mode of inheritance. Occasional families with similar characteristics have been described previously.

L69 ANSWER 6 OF 6 MEDLINE on STN ACCESSION NUMBER: 66046500 MEDLINE DOCUMENT NUMBER: PubMed ID: 5846510

TITLE:

Clinical use of a new glycine-

precipitated antihemophilic fraction.

AUTHOR: Webster W P; Roberts H R; Thelin G M; Wagner R H; Brinkhous

SOURCE: American journal of the medical sciences, (1965 Dec) 250

(6) 643-51.

Journal code: 0370506. ISSN: 0002-9629.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT:

Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH:

196602

ENTRY DATE:

Entered STN: 19900101

Last Updated on STN: 19990129 Entered Medline: 19660211

```
=> d que stat 173
L54
              1 SEA FILE=REGISTRY ABB=ON 9001-27-8/RN
              1 SEA FILE=REGISTRY ABB=ON 109319-16-6/RN
L55
              1 SEA FILE=REGISTRY ABB=ON 56-40-6/RN
L56
              1 SEA FILE=REGISTRY ABB=ON 7647-14-5/RN
L57
L58
         10492 SEA FILE=HCAPLUS ABB=ON (L54 OR ?FACTOR?(W)VIIIC) OR (L55 OR
                VON? (W) ?WILLEBRAND?)
             37 SEA FILE=HCAPLUS ABB=ON L58 AND ?PRECIPITAT? (4A) ?FRACTION?
             12 SEA FILE=HCAPLUS ABB=ON L59 AND (L56 OR ?GLYCINE?)
L60
              6 SEA FILE=HCAPLUS ABB=ON L59 AND (L57 OR NACL OR ?SODIUM? (W) ?CH
L61
                LORIDE?)
             14 SEA FILE=HCAPLUS ABB=ON L60 OR L61
L62
              2 SEA FILE=HCAPLUS ABB=ON L62 AND (?AMINO?(W)?ACID? OR (?ALKALI?
L63
                 OR ?ALKALINE?) (W) ?METAL?)
L64
              3 SEA FILE=HCAPLUS ABB=ON L59 AND (?AMINO?(W)?ACID? OR ?ALKAL?(W
                )?METAL?)
            15 SEA FILE=HCAPLUS ABB=ON L62 OR L63 OR L64
2 SEA FILE=HCAPLUS ABB=ON L65 AND (?STABILIZ? OR ?PASTEURIZ?)
L65
L66
            277 SEA FILE=USPATFULL ABB=ON L65 OR L66
L70
            241 SEA FILE=USPATFULL ABB=ON L70 AND (PRD<20021001 OR PD<20021001
L71
L72
            154 SEA FILE-USPATFULL ABB-ON L71 AND ((L57 OR NACL OR ?SODIUM?(W)
                ?CHLORIDE?) AND (L56 OR ?GLYCINE?))
L73
              7 SEA FILE-USPATFULL ABB=ON L72 AND ?FRACTIONAL?(W) (?PRECIPITAT?
                 OR ?CONCENTRAT?)
```

=> d ibib abs 173 1-7

L73 ANSWER 1 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2003:134595 USPATFULL

Compositions and methods for treating hemorrhagic virus TITLE:

infections and other disorders

Fredeking, Terry M., Bedford, TX, UNITED STATES Ignatyev, George M., Koltsovo, RUSSIAN FEDERATION INVENTOR(S):

NUMBER KIND DATE -----

PATENT INFORMATION: APPLICATION INFO.: US 2003092684 A1 20030515 US 2002-38557 A1 20020103 (10)

RELATED APPLN. INFO.:

Division of Ser. No. US 2001-840707, filed on 23 Apr 2001, PENDING Division of Ser. No. US 2000-562979,

filed on 27 Apr 2000, PENDING

NUMBER DATE -----

PRIORITY INFORMATION: US 1999-198210P 19990427 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HELLER EHRMAN WHITE & MCAULIFFE LLP, 4250 EXECUTIVE SQ,

7TH FLOOR, LA JOLLA, CA, 92037

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 LINE COUNT: 5807

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Methods for the treatment or prevention of disorders, including acute inflammatory disorders involving pathological responses of the immune system, such as viral hemorrhagic diseases, sepsis, rheumatoid arthritis and other autoimmune disorders, acute cardiovascular events, flare-ups and acute phases of multiple sclerosis, wasting disorders and other

disorders involving deleterious expression of cytokines and other factors, are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L73 ANSWER 2 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2002:149120 USPATFULL

Compositions and methods for treating hemorrhagic virus TITLE:

infections and other disorders

INVENTOR(S): Fredeking, Terry M., Bedford, TX, UNITED STATES

Ignatyev, George M., Koltsovo, RUSSIAN FEDERATION

NUMBER KIND DATE -----

US 2002077276 A1 20020620 US 2001-840707 A1 20010423 (9) PATENT INFORMATION:

APPLICATION INFO.:

RELATED APPLN. INFO.: Division of Ser. No. US 2000-562979, filed on 27 Apr

2000, PENDING

NUMBER DATE

US 1999-198210P 19990427 (60) PRIORITY INFORMATION:

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HELLER EHRMAN WHITE & MCAULIFFE LLP, 4250 EXECUTIVE SQ,

7TH FLOOR, LA JOLLA, CA, 92037

NUMBER OF CLAIMS: EXEMPLARY CLAIM: LINE COUNT: 5911

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Cytokine-receptor and cytokine antagonist-enriched blood-dervided compositions and methods of preparing and using the compositions are provided. Also provided are compositions and methods for the treatment or prevention of disorders, especially acute inflammatory disorders involving pathological responses of the immune system, such as viral hemorrhagic diseases, sepsis, rheumatoid arthritis and other autoimmune disorders, acute cardiovascular events, flare-ups and acute phases of multiple sclerosis, wasting disorders and other disorders involving deleterious expression of cytokines and other factors, including tumor necrosis factor (TNF) and interleukin-1 (IL-1) are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L73 ANSWER 3 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2000:153262 USPATFULL

Defined enzyme mixtures for obtaining cells and TITLE:

treating wounds

INVENTOR(S): Markert, Claus Otto, Schifferstadt, Germany, Federal

Republic of

Thom, Hans, Limburgerhof, Germany, Federal Republic of

Weymann, Jurgen, Bad Durkheim, Germany, Federal

Republic of

Zahn, Wolfgang, Altrip, Germany, Federal Republic of

PATENT ASSIGNEE(S): Knoll Aktiengesellschaft, Ludwigshafen, Germany,

Federal Republic of (non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 6146626 20001114

WO 9628543 19960919 <--APPLICATION INFO.: US 1997-913396 19970916 (8)

WO 1996-EP1044 19960312

> 19970916 PCT 371 date 19970916 PCT 102(e) date

NUMBER DATE

PRIORITY INFORMATION: DE 1995-19509584 19950316 <--

DE 1995-19532906 19950907 <--

DOCUMENT TYPE: Utility Granted

PRIMARY EXAMINER: Lilling, Herbert J. LEGAL REPRESENTATIVE: Keil & Weinkauf

5 NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 LINE COUNT: 836

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

The invention relates to the use of mixtures of defined composition of purified enzymes from Clostridium histolyticum for obtaining, in a reproducible, standardized manner, cells or tissue fragments from human or animal tissues, and to these enzymes and mixtures thereof; in addition it relates to the direct or indirect medical use of these enzymes, alone or as ingredient of mixtures, eg. in wound treatment.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L73 ANSWER 4 OF 7 USPATFULL on STN

ACCESSION NUMBER: 84:4558 USPATFULL

TITLE: Enriched plasma derivative for enhancement of wound

closure and coverage

Stroetmann, Michael, Munster, Germany, Federal Republic INVENTOR(S):

of

PATENT ASSIGNEE(S): Serapharm Michael Stroetmann, Munster, Germany, Federal

Republic of (non-U.S. corporation)

NUMBER KIND DATE -----PATENT INFORMATION: US 4427651 19840124 APPLICATION INFO.: US 1982-385665 19820607 (6)

NUMBER DATE

-----PRIORITY INFORMATION: DE 1981-3124962 19810625 <--

DOCUMENT TYPE: Utility FILE SEGMENT: Granted FILE SEGMENT: Granted
PRIMARY EXAMINER: Rosen, Sam

LEGAL REPRESENTATIVE: Hueschen, Gordon W.

NUMBER OF CLAIMS: 20 EXEMPLARY CLAIM: 1 LINE COUNT: 600

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A sprayable preparation for accelerated hemostasis and optimized biochemical control of wound closure contains a powdery mixture of 15 to 60% by weight of thrombin, 5 to 80% by weight of a desiccating and stabilizing agent, viz., albumin, globulin and/or fibrinogen, and 1 to 10% by weight of a fibrinolysis inhibitor. The powdery mixture is suspended in a low-boiling, anhydrous solvent, which is used as a propellant. For effective wound closure and coverage, a spray jet of

- <--

this suspension is directed onto the wound under evaporation of the solvent so that substantially only the dry, solid powdery mixture reaches the wound. This method of application by spraying is also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L73 ANSWER 5 OF 7 USPATFULL on STN

ACCESSION NUMBER: 84:4557 USPATFULL

TITLE: Enriched plasma derivative for advancement of wound

closure and healing

INVENTOR (S): Stroetmann, Michael, Munster, Germany, Federal Republic

PATENT ASSIGNEE(S): Serapharm Michael Stroetmann, Munster, Germany, Federal

Republic of (non-U.S. corporation)

NUMBER KIND DATE

US 4427650 19840124 US 1982-385664 19820607 (6) PATENT INFORMATION: <--

APPLICATION INFO.:

NUMBER DATE ______

PRIORITY INFORMATION: <--

DE 1981-3124962 19810625 EP 1981-110615 19811218 <--

DOCUMENT TYPE: FILE SEGMENT: Utility Granted PRIMARY EXAMINER: Rosen, Sam

LEGAL REPRESENTATIVE: Hueschen, Gordon W.

NUMBER OF CLAIMS: 13 EXEMPLARY CLAIM: 1 LINE COUNT: 580

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A preparation for accelerated hemostasis and optimized biochemical control of wound closure ("tissue adhesive") consists only of solid, powdery, biologically active constituents and contains 60 to 96% by weight of fibrinogen, which is largely liberated from cryo-insoluble globulin, 0.05 to 5% by weight of a fibrinolysis inhibitor, and 0.1 to 15% by weight of thrombin and/or prothrombin. For use, this enriched plasma derivative may be applied in the form of a dry, powdery mixture immediately and directly onto the wound or in the area of operation, respectively. Further application methods provide atomizing, spraying, or foaming of the powdery mixture by means of a propellant.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L73 ANSWER 6 OF 7 USPATFULL on STN

ACCESSION NUMBER: 78:8611 USPATFULL

TITLE: Blood fractionation process using block copolymers of

ethylene oxide and polyoxypropylene

INVENTOR (S): Kehm, Walter C., Scarsdale, NY, United States

PATENT ASSIGNEE(S): Baxter Travenol Laboratories, Inc., Deerfield, IL,

United States (U.S. corporation)

NUMBER KIND DATE

US 4073886 19780214 US 1973-327892 19730130 (5) PATENT INFORMATION: <--APPLICATION INFO.:

DOCUMENT TYPE: Utility. FILE SEGMENT:

Granted

PRIMARY EXAMINER:

Schain, Howard E.

LEGAL REPRESENTATIVE:

Flattery, Paul C., Flynn, Lawrence W., Hensley, Max D.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

LINE COUNT:

412

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A method of separating proteinaceous and lipid materials from blood serum and plasma which comprises selective precipitation with block copolymers of ethylene oxide and polyoxypropylene polymer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L73 ANSWER 7 OF 7 USPATFULL on STN

ACCESSION NUMBER:

76:26117 USPATFULL

TITLE:

Fractionation of blood using block copolymer of

ethylene oxide and polyoxypropylene polymer to recover

fraction suitable for organ perfusate

INVENTOR (S):

Garcia, Luis A., Huntington Beach, CA, United States Ordonez, Guido A., Laguna Beach, CA, United States

PATENT ASSIGNEE(S):

Baxter Laboratories, Inc., Deerfield, IL, United States

(U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION:

US 3956259 19760511 US 1974-476961 19740606 (5)

APPLICATION INFO.:

RELATED APPLN. INFO.:

Division of Ser. No. US 1973-327893, filed on 30 Jan

1973

DOCUMENT TYPE: FILE SEGMENT:

Utility Granted

PRIMARY EXAMINER:

Schain, Howard E.

LEGAL REPRESENTATIVE:

Altman, Louis, Flynn, Lawrence W., Hensley, Max D.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

LINE COUNT:

359

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

A method of fractionating coagulation factor-depleted blood serum or plasma by selective precipitation with block copolymers of ethylene oxide and polyoxypropylene polymer to provide immunoglobulin preparations, albumin-containing fractions and organ perfusates.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.